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Attorney Docket Number	3382-67742
Application Number	10/767,135
Filing Date	January 28, 2004
First Named Inventor	Gu
Art Unit	Not yet assigned
Examiner Name	Not yet assigned

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3382-67742 Attorney Docket Number Application Number 10/767,135 Filing Date January 28, 2004 INFORMATION DISCLOSURE STATEMENT First Named Inventor **BY APPLICANT** Gu Art Unit Not yet assigned Not yet assigned **Examiner Name** FOREIGN PATENT DOCUMENTS Examiner's Cite No. Country Number **Date** (optional) Initials* EP614318A2 9.7.1994 Europe

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Attorney Docket Number 3382-67742 **Application Number** 10/767,135 Filing Date January 28, 2004 INFORMATION DISCLOSURE STATEMENT BY APPLICANT First Named Inventor Art Unit Not yet assigned Examiner Name Not yet assigned Examiner's Cite No. OTHER DOCUMENTS Initials' (optional) Canny, "A Computational Approach to Edge Detection," IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. PAMI-8, No. 6, pp. 679-698 (November 1986). Chang et al., "Next Generation Content Representation, Creation, and Searching for New-Media Applications in Education," Proc. IEEE, Vol. 86, No. 5, pp. 884-904 (1998). Chang et al., "Transform Coding of Arbitrarily-Shaped Image Segments," Proceedings of the ACM Multimedia 93, pp. 83-90, (August 1, 1993). Chen et al., "A Block Transform Coder for Arbitrarily Shaped Image Segments." ICIP-94. Vol. I/III, pp. 85-89 (November 13, 1994). Chen et al., "Image Segmentation as an Estimation Problem," Computer Graphics and Image Processing, Vol. 12, pp. 153-172 (1980). Cover et al., "Nearest Neighbor Pattern Classification," IEEE Transactions on Information Theory, Vol. IT-13, pp. 21-27 (1967). Crisman, "Color Region Tracking for Vehicle Guidance," Active Vision, Blake and Yuille ed., MIT Press, Cambridge, pp. 107-120 (1992). Curwen et al., "Dynamic Contours: Real-time Active Splines," Active Vision, Blake and Yuille ed., MIT Press, Cambridge, pp. 39-58 (1992). Deriche et al., "Tracking Line Segments," ECCV'90, pp. 259-268 (1990). Dickmanns, "Expectation-based Dynamic Scene Understanding," Active Vision, Blake and Yuille ed., MIT Press, Cambridge, pp. 303-335 (1992). Diehl, "Object-Oriented Motion Estimation and Segmentation In Image Sequences," Signal Processing Image Communication, Vol. 3, No. 1, pp. 23-56 (1991). Fogg, "Image and Video Compression," SPIE-The International Society for Optical Engineering Proceedings, Vol. 2186 (1994). Foley et al., "Computer Graphics Principles and Practice," Addison-Wesley Publishing Company, Inc., pp. 835-851 (1990). Franke et al., "Constrained Iterative Restoration Techniques: A Powerful Tool in Region Oriented Texture Coding," Signal Processing IV: Theories and Applications, pp. 1145-1148 (September 1988). Goh et al., "Model-Based Multi-Resolution Motion Estimation in Noisy Images," CVGIP: Image Understanding, Vol. 59, No. 3, pp. 307-319 (1994). Gordon, "On the Tracking of Featureless Objects with Occlusion," IEEE Workshop on Visual Motion, Irving, pp. 13-20 (1989).

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Attorney Docket Number 3382-67742 10/767,135 **Application Number** Filing Date January 28, 2004 INFORMATION DISCLOSURE STATEMENT BY APPLICANT First Named Inventor Art Unit Not yet assigned **Examiner Name** Not yet assigned Examiner's Cite No. OTHER DOCUMENTS Initials5 (optional) Gu, "3D Contour Image Coding Based on Morphological Filters and Motion Estimation," ICASSP94, pp. 277-280 (1994). Gu, "Combined Gray-Level and Motion Segmentation for Very Low Bit-Rate Coding," SPIE, Vol. 2451, pp. 121-129 (March 20, 1995). Gu et al., "Morphological Moving Object Segmentation and Tracking for Content-Based Video Coding," International Symposium on Multimedia Communication and Video Coding, New York, Plenum Press (Oct. 11-13, 1995). Gu et al., "Semantic Video Object Tracking Using Region-Based Classification," Proc. of IPCIP '98 Int'l Conf. on Image Processing, Chicago, IL, pp. 643-647 (October 1998). Gu et al., "Semiautomatic Segmentation and Tracking of Semantic Video Objects," IEEE Transactions on Circuits and Systems for Video Technology, Vol. 8, No. 5, pp. 572-584 (September 1998). Gu et al., "Tracking of Multiple Semantic Video Objects for Internet Applications," Part of IS&T/SPIE Conf. on Visual Comm. and Image Processing '99, San Jose, CA, pp. 806-820 (January 1999). Gu, "Multivalued Morphology and Segmentation-Based Coding," Ph.D. dissertation, LTS/-EPFL, http://-ltswww.-epfi.-ch/- Staff/gu.html, (1995). Guo et al., "Tracking of Human Body Motion Based on a Stick Figure Model," Journal of Visual Communication and Image Representation, Vol. 5, No. 1, pp. 1-9 (1994). Haddad et al., "Digital Signal Processing, Theory, Applications, and Hardware," pp. 257-261 (1991). Haralick et al., "Image Segmentation Techniques," Computer Vision, Graphics and Image Processing, Vol. 29, pp. 100-132 (1985). Harris, "Tracking and Rigid Models," Active Vision, Blake and Yuille ed., MIT Press, Cambridge, pp. 59-74 (1992). Horowitz et al., "Picture Segmentation By a Tree Traversal Algorithm," J. ACM, Vol. 23. No. 3, pp. 368-388 (1976). Hötter, "Optimization and Efficiency of an Object-Oriented Analysis-Synthesis Coder, IEEE Transactions on Circuits and Systems for Video Technology, No. 2, pp. 181-194 (April 4, 1994). International Organization for Standardisation ISO/IEC JTCI/SC29/WG11, Information Technology-Coding of Audio-Visual Objects: Visual, ISO/IEC 14496-2, pp. 159-311. (May 28, 1998)

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Attorney Docket Number 3382-67742 **Application Number** 10/767,135 January 28, 2004 Filing Date INFORMATION DISCLOSURE STATEMENT First Named Inventor Gu BY APPLICANT Art Unit Not yet assigned **Examiner Name** Not yet assigned Examiner's Cite No. OTHER DOCUMENTS Initials* (optional) International Organization for Standardisation ISO/IEC JTCI/SC29/WG11, Information Technology-Coding of Audio-Visual Objects: Visual, ISO/IEC 14496-2, pp. 183-190, (May 28, 1998). International Organization for Standardisation ISO/IEC JTCI/SC29/WG11, Information Technology-Coding of Audio-Visual Objects: Visual, "Preprocessing and Postprocessing," ISO/IEC 14496-2, pp. 303-308 (May 28, 1998). International Organization for Standardisation ISO/IEC JTCI/SC29/WG11, N2459, "Overview of the MPEG-4 Standard," (Oct. 1998). ISO, ISO/IEC JTC1/SC29/WG11 MPEG 97/N1642, "MPEG-4 Video Verification Model Version 7.0 3. Encoder Definition," pp. 1, 17-122 Bristol (April 1997). Irani et al., "Detecting and Tracking Multiple Moving Objects Using Temporal Integration," In Proc. 2nd European Conference on Computer Vision, pp. 282-287 (1992). Irani et al., "Video Indexing Based on Mosaic Representations," Proc. IEEE, Vol. 86, No. 5, pp. 905-921 (May 1998). Kass et al., "Snakes: Active Contour Models," Proc. Int'l. Conference Computer Vision. London, pp. 259-268 (1987). Kunt et al., "Second Generation Image-CodingTechniques," Proceedings of IEEE, Vol. 73, No. 4 (1985). LaCall, "MPEG: A Video Compression Standard for Multimedia Applications," Communications of the ACM, Vol. 34, No. 4, pp. 47-58 (April 1991). Lee et al., "A Layered Video Object Coding System Using Sprite and Affine Motion Model," IEEE Transactions on Circuits and Systems for Video Technology, Vol. 7, No. 1 (February 1997). Legters et al., "A Mathematical Model for Computer Image Tracking," IEEE Trans. On Pattern Analysis and Machine Intelligence, Vol. 4, No. 6, pp. 583-594 (1982). Marqués et al., "Object Tracking for Content-Based Functionalities," SPIE, Vol. 3024, pp. 190-199 (1997). Marr, "Vision," W.H. Freeman, New York, Chapter 4, pp. 268-294 (1982). Meyer, "Color Image Segmentation," 4th International Conference on Image Processing and its Applications, pp. 303-306 (May 1992). Meyer et al., "Region-Based Tracking in an Image Sequence," Signal Processing: Image

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Attorney Docket Number	3382-67742-01
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Art Unit	2614
Examiner Name	not yet assigned

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Copies of U.S. Patent documents do not need to be provided, unless requested by the Patent and Trademark Office. For patents, provide the patent number and the issue date. For published U.S. applications, provide the publication number and the publication date. For unpublished pending patent applications, provide the application number and the filing date.

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EXAMINEI SIGNATUR			DATE CONSIDERED: U	19/01			
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Attorney Docket Number	3382-67742-01	
			Application Number	10/767,135	
			Filing Date	January 28, 2004	
			First Named Inventor	Gu	
			Art Unit	2614	
			Examiner Name	not yet assigned	
Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS			
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